



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Benson et al. Group Art Unit: 1631  
Serial No.: 10/027,277 / Examiner: Carolyn L. Smith  
Filed: December 21, 2001 Docket No.: 00481.CN1  
Confirmation No.: 3061  
Title: CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED  
HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

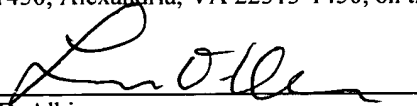
- ☒ An itemized return postcard.  
☐ A Petition for Extension of Time for \_\_\_ month(s) and a check in the amount of \$\_\_\_ for the required fee.  
☒ An Information Disclosure Statement (2 pgs); copy of 1 application; 1449 form (1 pg); and copies of 6 documents cited on the 1449 form.  
☐ Other:  
☐ Amendment ☐ No Additional fee is required. ☐ The fee has been calculated as shown:

Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$18 =	
Independent Claims				x \$84 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$280 Here →					
Total Additional Claim Fees Required					

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

**CERTIFICATE UNDER 37 C.F.R. §1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 3 day of SEPTEMBER, 2003.

MUETING, RAASCH & GEBHARDT, P.A.  
Customer Number: 26813

By:   
Loren D. Albin  
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(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)



PATENT  
Docket No. 00481.CN1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Benson et al.	)	Group Art Unit:	1631
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CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED HUMAN BETA SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE			

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the continuing duty of candor and good faith that is to be demonstrated before the United States Patent and Trademark Office (USPTO), enclosed are copies of documents which Applicants bring to the Examiner's attention as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 form(s) is respectfully requested. Pursuant to the provisions of MPEP §609, Applicants further request that a copy of the 1449 form(s), marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to the following pending U.S. Application, as well as any documents, Office Actions that may include rejections of similar claims, and any provisional U.S. patent applications referenced therein. A copy of the below-listed pending U.S. Patent Application is provided herewith.

**Information Disclosure Statement**

Page 2 of 2

Applicant(s): Benson et al.

Serial No.: 10/027,277

Confirmation No.: 3061

Filed: December 21, 2001

For: CRYSTALLIZATION AND STRUCTURE DETERMINATION OF GLYCOSYLATED HUMAN BETA  
SECRETASE, AN ENZYME IMPLICATED IN ALZHEIMER'S DISEASE**List of Pending Non-Published U.S. Patent Applications**

Applicant(s)	Application Number	Filing Date	Serial No. of Provisional Application to which listed Application claims priority
Benson et al.	10/435,533	05/09/03	60/379,690

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

When the Examiner takes up the present application, consideration of these documents is respectfully requested. The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 3 day of **SEPTEMBER, 2003**.

  
Loren D. Albin

Respectfully submitted for

**Benson et al.**

By

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September 3, 2003  
Date

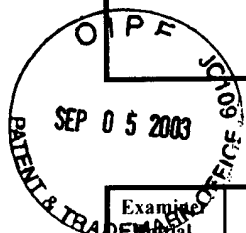
By: 

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<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 00481.CN1	Serial No.: 10/027,277
	Applicant(s): Benson et al.	Confirmation No.: 3061
	Application Filing Date: Dec. 21, 2001	Group: 1631
	Information Disclosure Statement mailed: <b>SEPTEMBER 3, 2003</b>	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	6,545,127 B1	04/08/03	Tang et al.			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	NONE						

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Document Description
	Branden et al., "Introduction to protein structure," Garland Publishing, Inc., New York, NY 1999; Cover Page, Copyright Page, and pages 373-374.
	Bruinzeel et al., "Recombinant insect cell expression and purification of human $\beta$ -secretase (BACE-1) for X-ray crystallography," <i>Protein Expr Purif.</i> 2002 Oct; 26(1):139-148.
	Ehehalt et al., "Splice variants of the $\beta$ -site APP-cleaving enzyme BACE1 in human brain and pancreas," <i>Biochem Biophys Res Commun.</i> 2002 Apr 26;293(1): 30-37.
	Farzan et al., "BACE2, a $\beta$ -secretase homolog, cleaves at the $\beta$ site and within the amyloid- $\beta$ region of the amyloid- $\beta$ precursor protein," <i>Proc Natl Acad Sci U S A.</i> 2000 Aug 15;97(17):9712-9717.
	Ghosh et al., "Structure-based design: Potent inhibitors of human brain memapsin 2 ( $\beta$ -secretase)," <i>J Med Chem.</i> 2001 Aug 30;44(18):2865-2868.

<b>EXAMINER</b>	<b>Date Considered</b>
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	